

PATENT APPLICATION
Docket No. 27950-432USPT
LMC 2000-090

WHAT IS CLAIMED IS:

- 1 1. A method of providing telecommunications services comprising the
2 steps of:
 - 3 sending by a call server of a first trigger linked to a first call event to a
4 service manager in response to occurrence of the first call event;
 - 5 sending by the call server of a second trigger linked to a second call
6 event to the service manager in response to occurrence of the second call event;
 - 7 in response to receipt of the first and the second triggers, the service
8 manager performing a service interaction management analysis and determining
9 which applications should be executed; and
 - 10 in response to a determination that at least one application should be
11 executed, invoking by the service manager of the at least one application via an
12 application-programming interface.
- 1 2. The method of claim 1 wherein the step of invoking further comprises
2 providing to the at least one application information regarding an object with which
3 the at least one application must interact.

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1 3. The method of claim 2 further comprising the step of interacting by the
2 at least one application directly with the call server via the application-programming
3 interface.

1 4. The method of claim 3 wherein the application-programming interface
2 comprises Open Service Access (OSA).

1 5. The method of claim 4 wherein the step of interacting directly with the
2 call server is responsive to a determination that no service interaction management
3 issues are present.

1 6. The method of claim 2 further comprising the step of interacting by the
2 at least one application with the service manager via the application-programming
3 interface.

1 7. The method of claim 6 wherein the application-programming interface
2 comprises Open Service Access (OSA).

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1 8. The method of claim 7 further comprising the step of interacting by the
2 service manager via the application-programming interface with the call server, the
3 service manager serving as a proxy.

1 9. The method of claim 1 further comprising caching by the service
2 manager of call-related information included in the triggers.

1 10. The method of claim 9 further comprising the step of proxying by the
2 service manager between the at least one application and the call server.

1 11. The method of claim 1 wherein the triggers comprise intelligent-
2 networking (IN) triggers.

1 12. The method of claim 11 wherein at least one of the triggers comprises
2 an Open Service Access (OSA) requirement.

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1 13. The method of claim 12 wherein the OSA requirement includes a
2 reference to a call object on the call server.

1 14. The method of claim 1 further comprising the step of obtaining by the
2 call server of a plurality of trigger criteria from a user profile database.

1 15. The method of claim 14 wherein the triggers permit dynamic association
2 of the call server to a particular user.

1 16. The method of claim 1 wherein the first call event and the second call
2 event are the same event.

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1 17. An application-programming-interface-based telecommunications
2 system comprising:

3 a call server obtaining criteria corresponding to at least one trigger from
4 a user profile database and, in response to occurrence of the criteria, sending the at
5 least one trigger;

6 a service manager receiving the at least one trigger and, in response to
7 receipt of the at least one trigger, performing a service interaction management
8 analysis and determining in what manner applications should be executed;

9 an application-programming interface adapted to permit the call server,
10 the service manager, and the applications to communicate; and

11 at least one application being invoked in response to a communication
12 from the service manager via the application-programming-interface.

1 18. The system of claim 17 wherein the application-programming interface
2 comprises Open Service Access (OSA).

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1 19. The system of claim 17 wherein the service manager serves as a proxy
2 between the first call server and the at least one application.

1 20. The system of claim 17 wherein the service manager directs the at least
2 one application to interact directly with the call server.

1 21. The method of claim 17 wherein the service manager caches call-related
2 information included in the at least one trigger.

1 22. The system of claim 17 wherein the at least one trigger comprises
2 intelligent-networking (IN) triggers.

1 23. The system of claim 22 wherein the at least one trigger comprises an
2 Open Service Access (OSA) requirement.

1 24. The system of claim 22 wherein the OSA requirement includes a
2 reference to a object on the call server.

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1 25. A telecommunications system comprising:
2 a service node adapted to communicate according to pre-determined
3 criteria via an application-programming interface (API) with at least one application
4 or via a networking protocol; and
5 at least one network entity adapted to send to the service node a
6 networking protocol trigger that includes an API requirement, the API requirement
7 requesting an API response to the trigger, wherein the service node is adapted to,
8 depending on the pre-determined criteria, respond to the network entity according
9 to the networking protocol or to communicate with the at least one application via
10 the API.

1 26. The system of claim 25 wherein the service node is adapted to respond
2 to the network entity via the API.

1 27. The system of claim 25 wherein the at least one application
2 communicates directly with the network entity via the API in response to the
3 communication by the service node to the at least one application.

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1 28. The system of claim 25 wherein the networking protocol comprises the
2 intelligent-networking (IN) protocol.

1 29. The system of claim 28 wherein the API requirement comprises an
2 Open Service Access (OSA) requirement.

1 30. The system of claim 29 wherein the OSA requirement includes
2 information regarding an object with which the at least one application must
3 interact.

1 31. The system of claim 28 wherein the service node comprises a service
2 control point (SCP).

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1 32. A method of converging telecommunication systems comprising:
2 sending by at least one network entity to a service node a networking
3 protocol trigger that includes an application-programming interface (API)
4 requirement, the API requirement requesting an API response to the trigger; and
5 depending on pre-determined criteria, responding by the service node
6 to the network entity according to the networking protocol or communicating by the
7 service node with at least one application or with the network entity via the
8 application-programming interface (API).

1 33. The method of claim 32 further comprising the step of communicating
2 by the at least one application directly with the network entity via the API in
3 response to the step of communicating by the service node with the at least one
4 application.

1 34. The method of claim 32 wherein the networking protocol comprises the
2 intelligent-networking (IN) protocol.

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1 35. The method of claim 34 wherein the API requirement comprises an
2 Open Service Access (OSA) requirement.

1 36. The method of claim 35 wherein the OSA requirement includes
2 information regarding an object with which the at least one application must
3 interact.

1 37. The method of claim 34 wherein the service node comprises a service
2 control point (SCP).